FIG. 1

FIG. 2

FIG. 3

App No.: NEW   Docket No.: 1248-0862PUS1
Inventor: Tetsunori MITSUOKA et al.
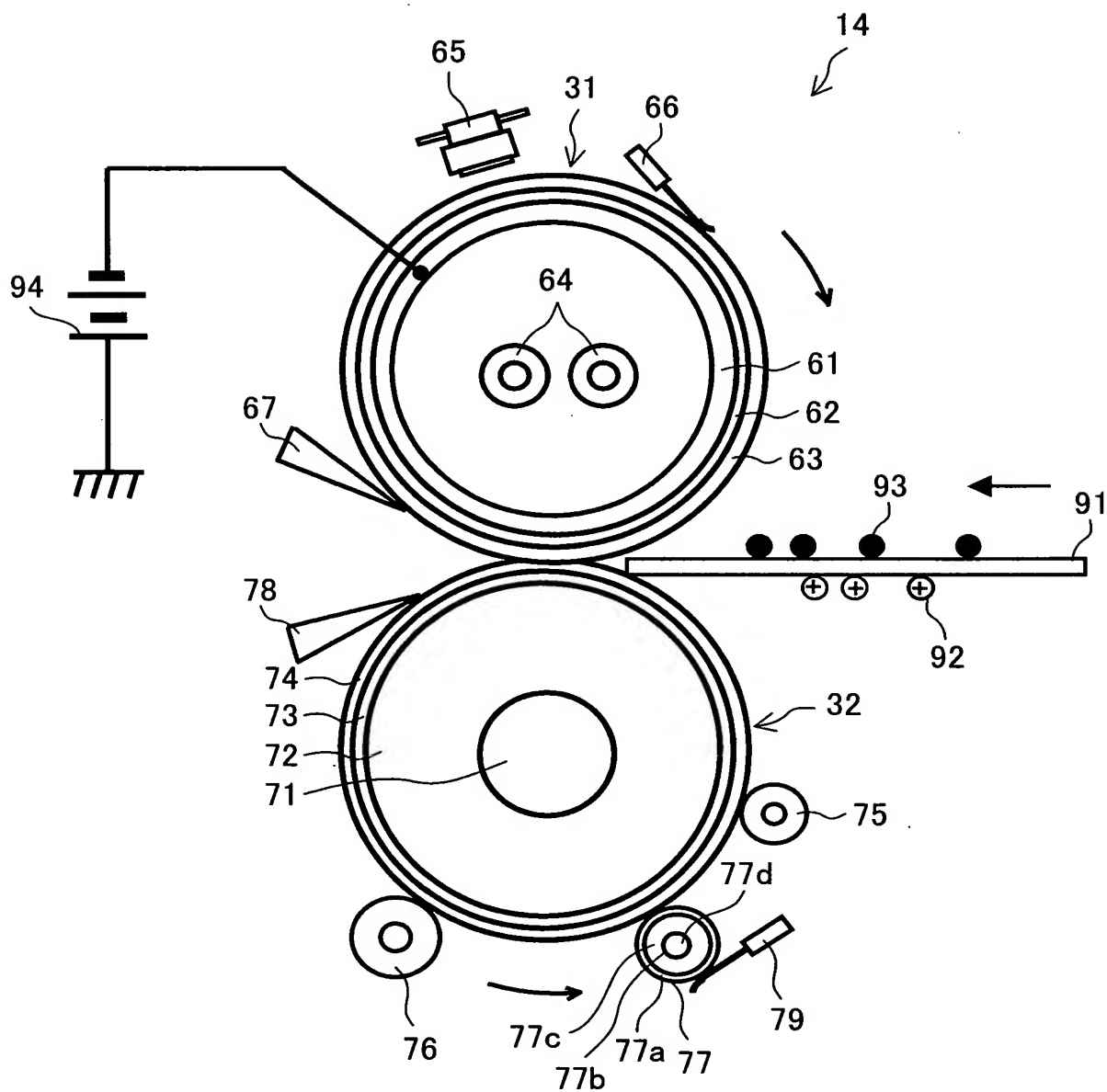Title: FIXING METHOD, FIXING DEVICE, AND IMAGE
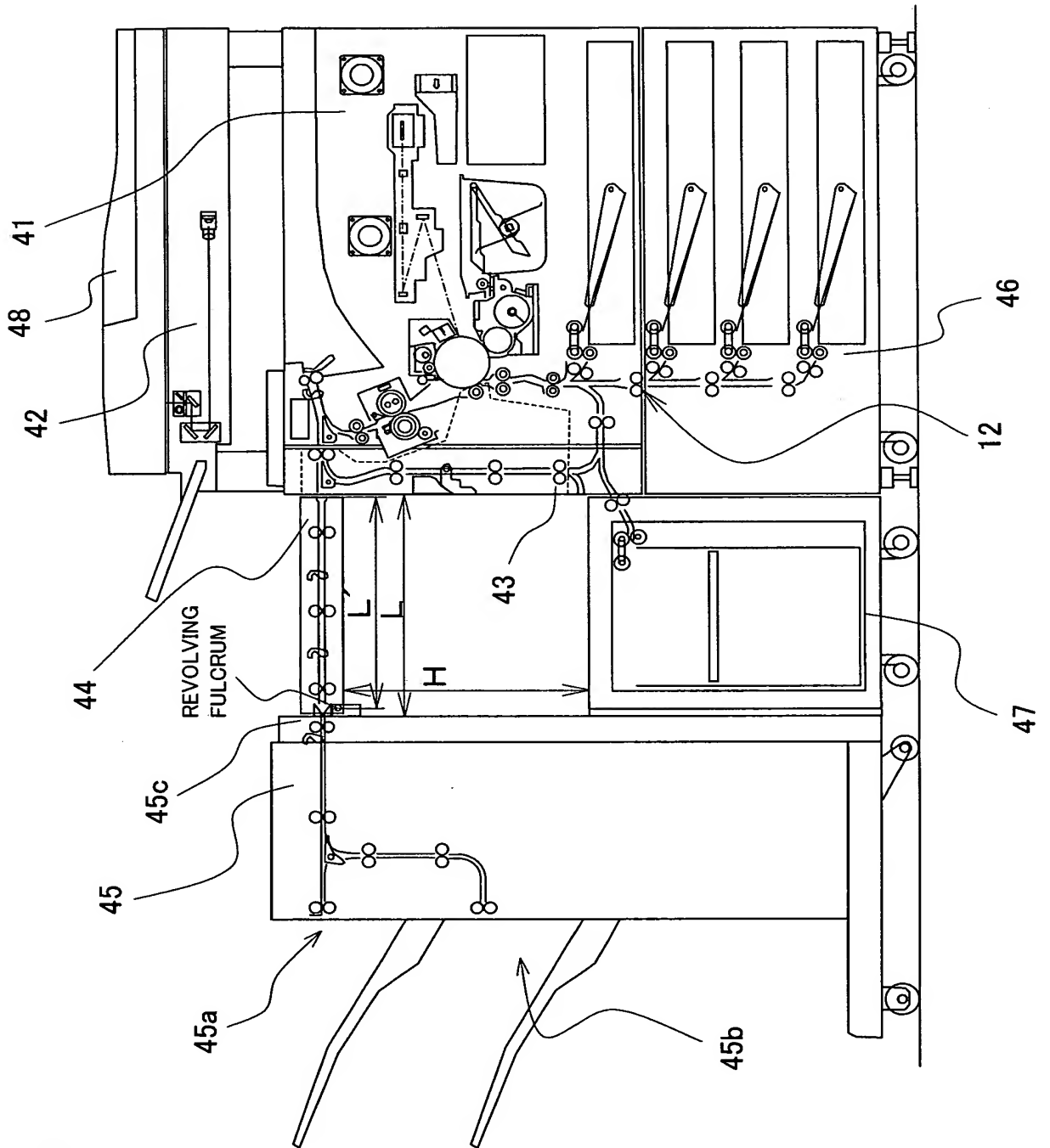 FORMING APPARATUS
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FIG. 4
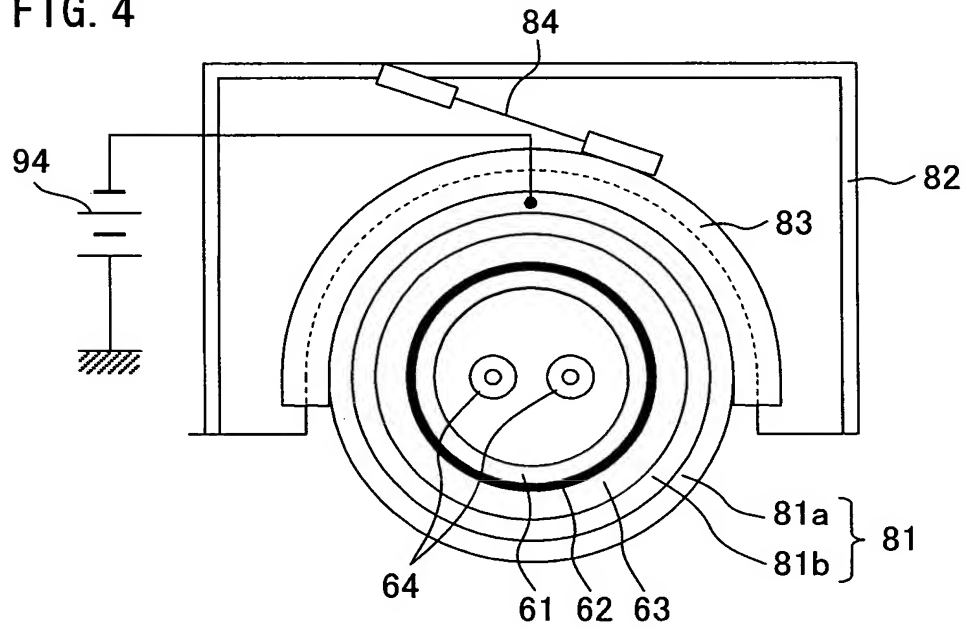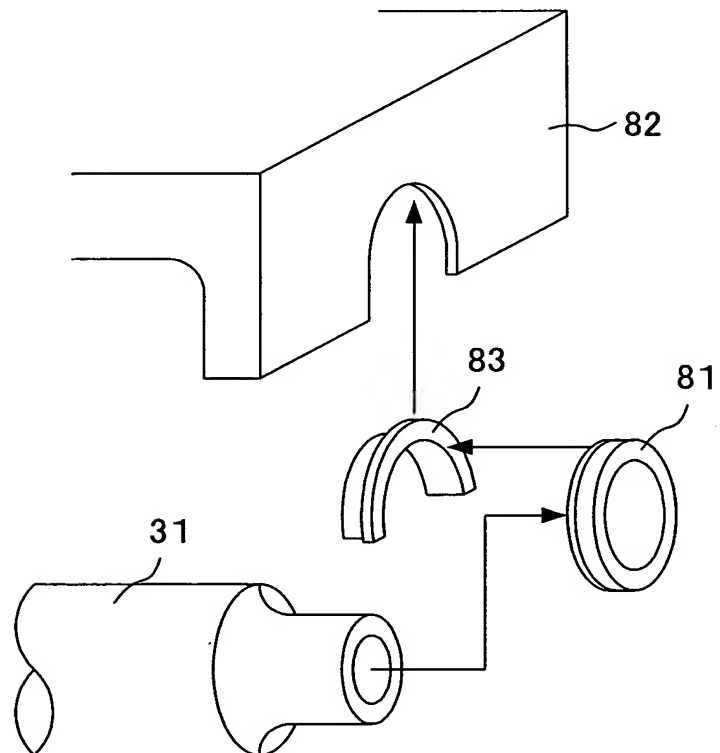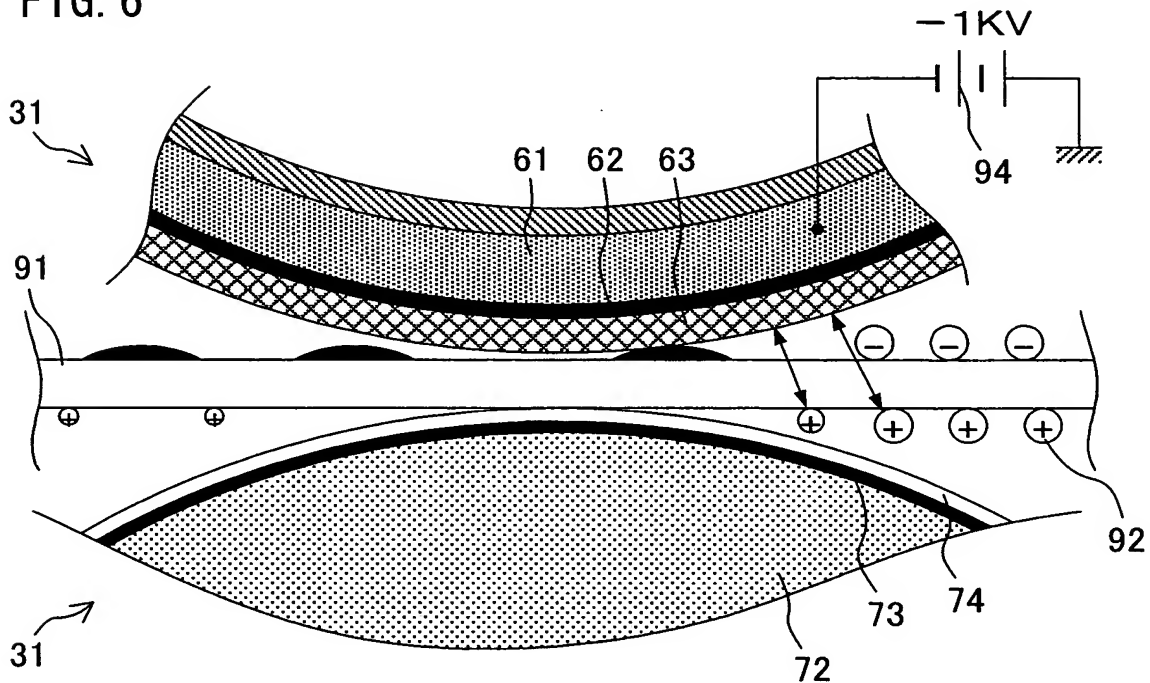
FIG. 5

FIG. 6

FIG. 7

VOLUME RESISTIVITY ($\Omega \cdot cm$) OF SURFACE INSULATING LAYER OF FIXING ROLLER	VOLUME RESISTIVITY ($\Omega \cdot cm$) OF SURFACE RESISTIVE LAYER OF PRESSURE ROLLER	POLARITY OF REVERSE POLARITY TONER	FIXING BIAS VOLTAGE (V)	DEGREE OF CONTAMINATION (○、△、×)
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	+	−500	△
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	+	−1000	○
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	+	−1500	○
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	+	−2000	—
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	+	+500	×
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{7} \Omega \cdot cm$	+	−500	○
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{7} \Omega \cdot cm$	+	−1000	○
$10^{10} \sim 10^{12} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	+	−500	×

○ : SLIGHTLY CONTAMINATED
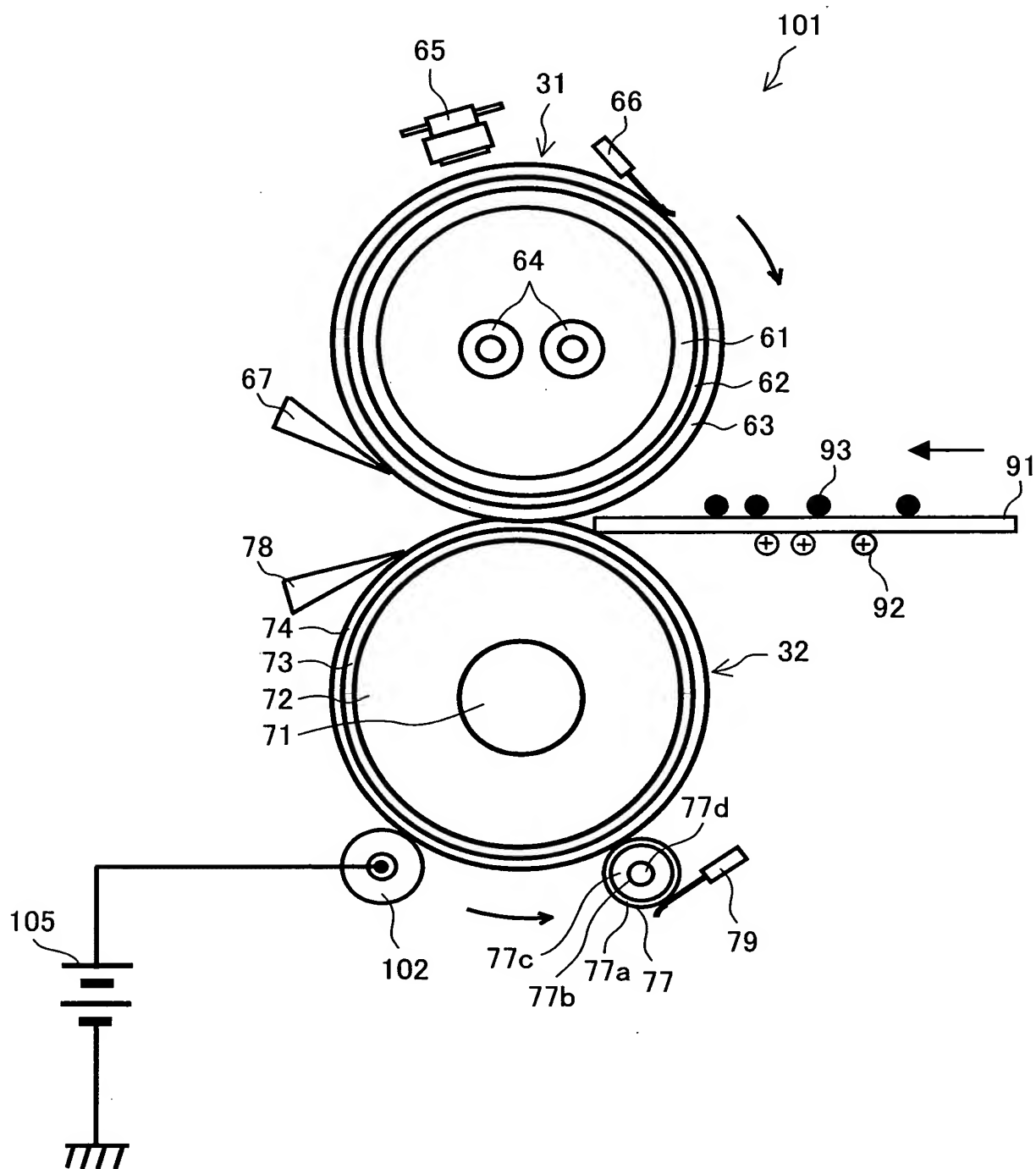△ : MODERATELY CONTAMINATED
× : TERRIBLY CONTAMINATED

FIG. 8

FIG. 9

VOLUME RESISTIVITY ($\Omega \cdot cm$) OF SURFACE INSULATING LAYER OF FIXING ROLLER	VOLUME RESISTIVITY ($\Omega \cdot cm$) OF SURFACE RESISTIVE LAYER OF PRESSURE ROLLER	POLARITY OF REVERSE POLARITY TONER	FIRST FIXING BIAS VOLTAGE (V)	SECOND FIXING BIAS VOLTAGE (V)	DEGREE OF CONTAMINATION ($\bigcirc$, $\triangle$, $\times$)
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	$+$	-1000	0	$\triangle$
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	$+$	-1000	$+500$	$\bigcirc$
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{17} \Omega \cdot cm$	$+$	-1000	$+1000$	$\bigcirc$
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{17} \Omega \cdot cm$	$+$	-1000	$+1000$	$\triangle$
$10^{17} \sim 10^{19} \Omega \cdot cm$	$10^{17} \Omega \cdot cm$	$+$	-1000	$+1600$	$\bigcirc$
$10^{10} \sim 10^{12} \Omega \cdot cm$	$10^{12} \Omega \cdot cm$	$+$	-1000	$+1000$	$\triangle$
$10^{10} \sim 10^{12} \Omega \cdot cm$	$10^{7} \Omega \cdot cm$	$+$	-1000	$+1000$	$\times$

$\bigcirc$: SLIGHTLY CONTAMINATED
$\triangle$: MODERATELY CONTAMINATED
$\times$: TERRIBLY CONTAMINATED

FIG. 10

FIG. 11

FIG. 12

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Title: FIXING METHOD, FIXING DEVICE, AND IMAGE
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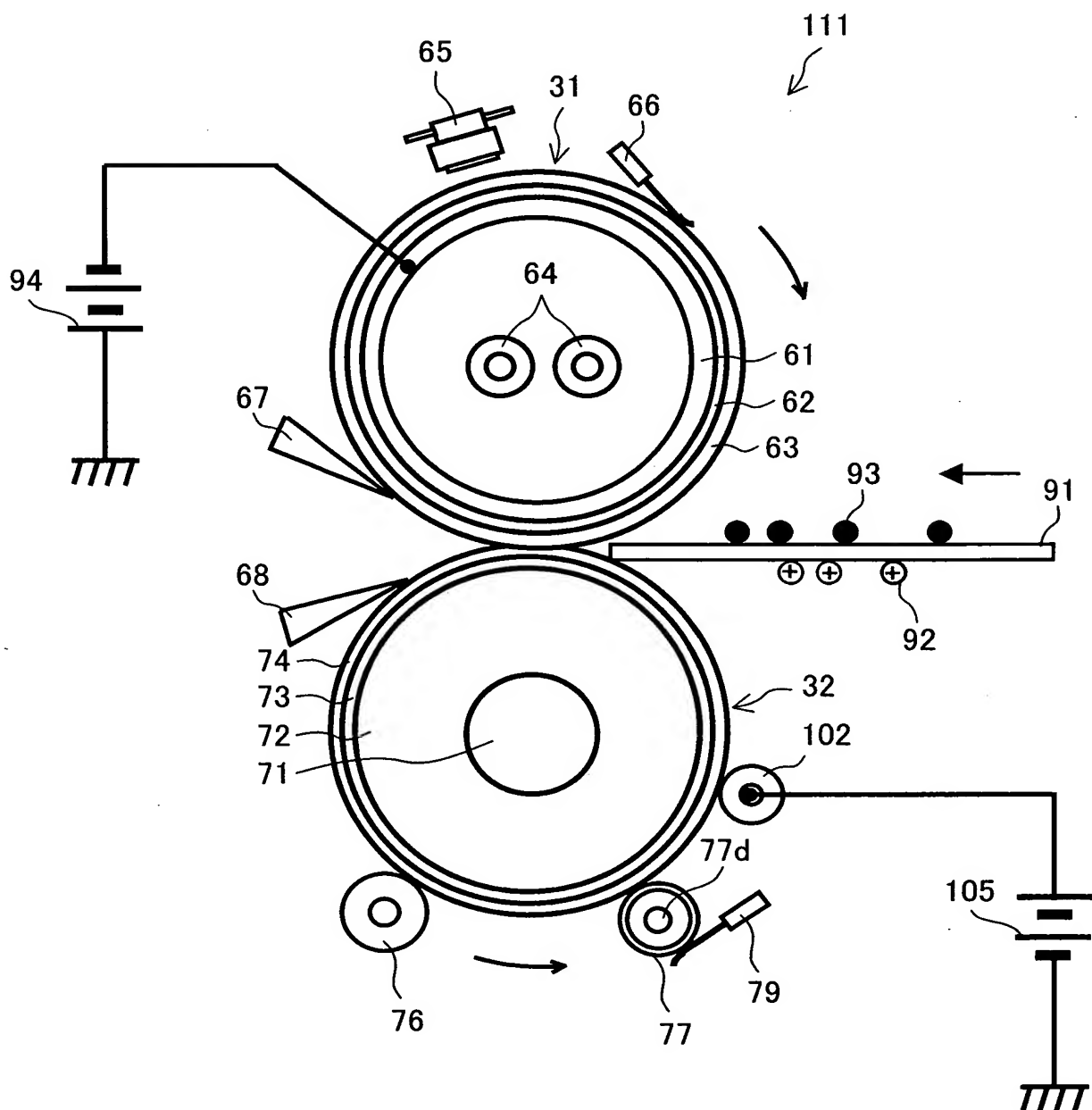
FIG. 13 (a)
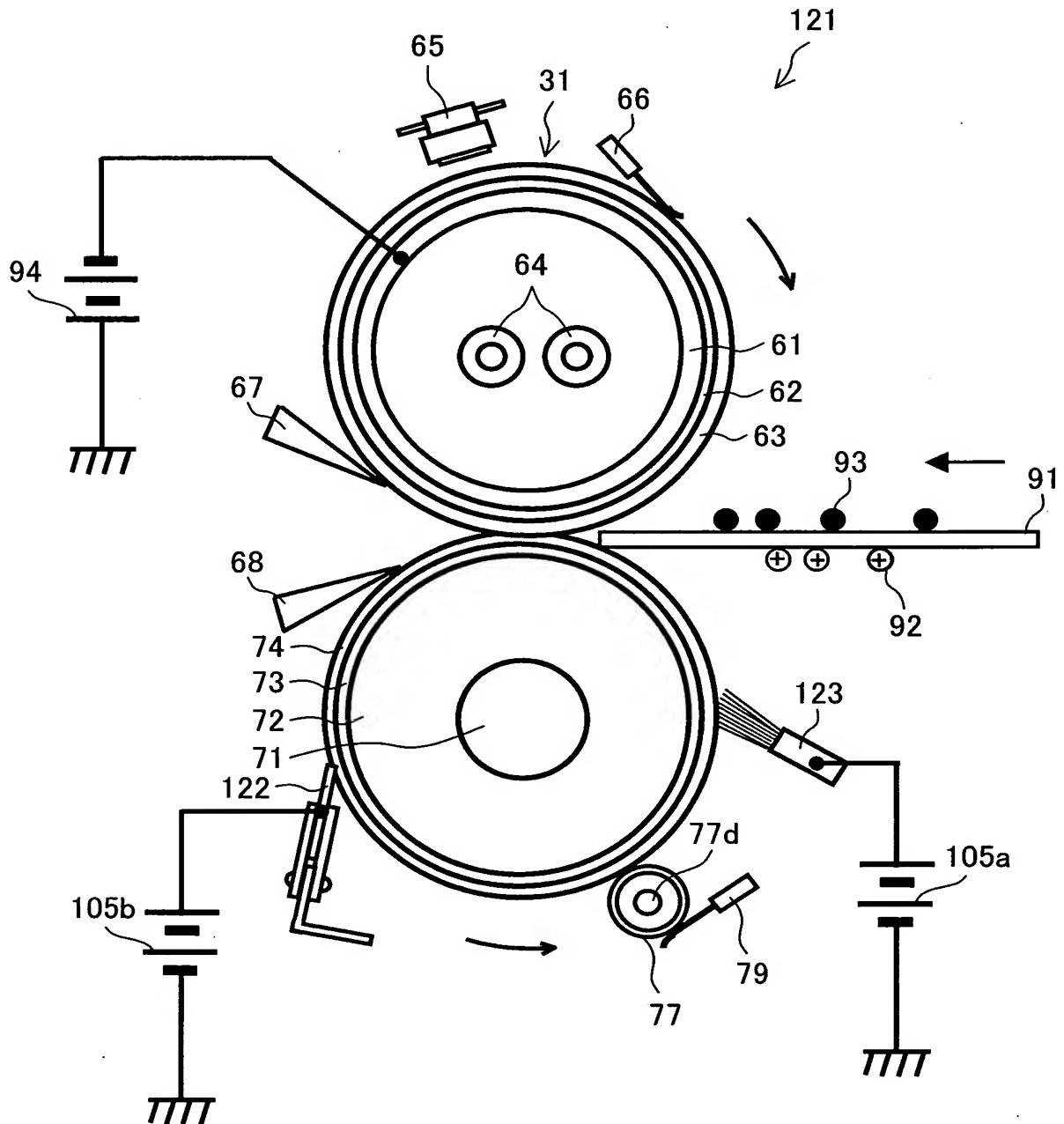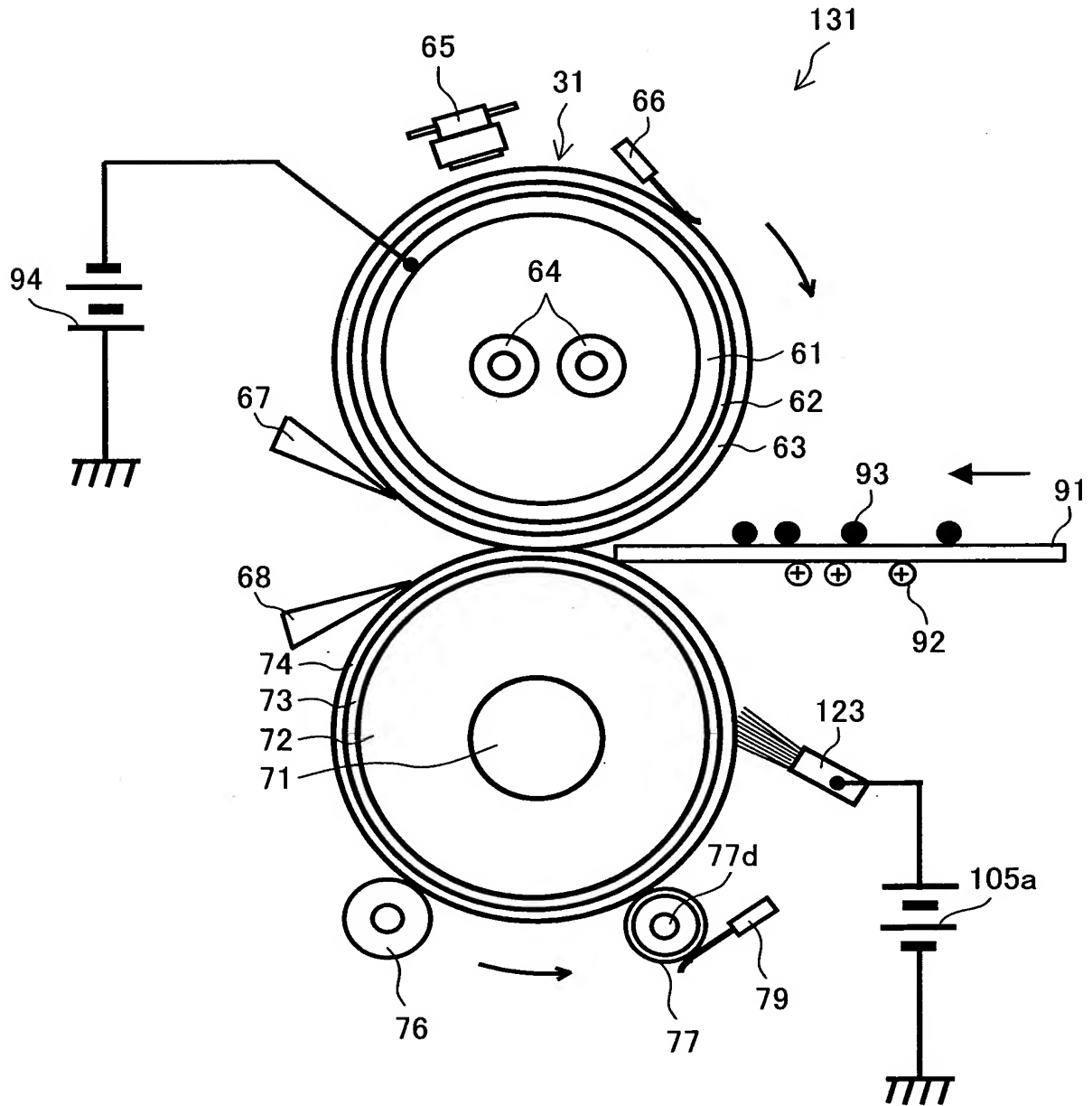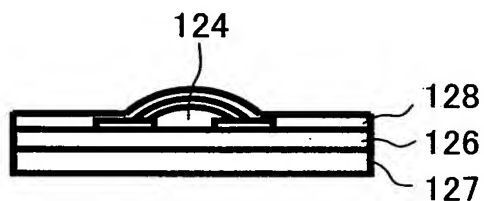

HEAT-RECEIVING SURFACE
(SURFACE WHICH IS IN CONTACT WITH ROLLER)

FIG. 13 (b)